NOTICE THIS DRAWING SHALL NOT BE DUPLICATED OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED A WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF RAMTEK CORPORATION. HOWEVER, IF THIS DRAWING IS SPECIFIED TO BE GIVEN TO ANY BRANCH OF GOVERNMENT THIS DRAWING MAY BE USED AS PERMITTED BY THE DATA CLAUSE PER CONTRACT OR SUBCONTRACT

LTR	DESCRIPTION	APVD	DATE
A	PROD. RELEASE PER ECO 506263	T.L.	12.13.74
B	REV PER ECO 506267	E.C.	1/3/74
C	REV PER ECO 506284	E.C.	1/20/75

QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.

LIST OF MATERIALS

TOLERANCES
UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS & BREAK ALL SHARP EDGES.
.XX .XXX ANG
MATL
FINISH
0550185
NEXT ASSY

DO NOT SCALE DRAWING

	SIGNATURES	DATE
DWN	T. Cauldeer	2/11/74
CHK	T. Cauldeer	12/13/74
ENG		
APVD		12/13/74

RAMTEK

TITLE LOGIC DIAGRAM BD #1 BASEBALL (MSTR TIMING)

SIZE D SCALE SHT 1 OF 5 DWG NO. 550284 REV C

501003 REV. 4

REVISIONS

LTR	DESCRIPTION	APVD	DATE
A	PRODUCTION RELEASE PER ECO 506263	T.L.	12/13/74
B	REV PER ECO 506272	E.C.	1/6/75
C	REV PER ECO 506284	E.C.	1/20/75

QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.

LIST OF MATERIALS

TOLERANCES
UNLESS OTHERWISE SPECIFIED:
REMOVE ALL BURRS & BREAK ALL SHARP EDGES.
.XX .XXX ANG
MATL
FINISH

550186
NEXT ASSY

DO NOT SCALE DRAWING

SIGNATURES		DATE
DWN		DEC 7,74
CHK		12-8-74
ENG		
APVD		

RAMTEK

TITLE: LOGIC DIAGRAM BD.# 2
BASEBALL (BALL & AUDIO)

SIZE D
SCALE
SHT 2 OF 5
DWG NO. 550285
REV C

LTR	DESCRIPTION	APVD	DATE
A	PROD. RELEASE PER ECO 506263	T.L.	12-13-74
B	REV PER ECO 506272	E.C.	1/6/75
C	REV PER ECO 506284	E.C.	1/20/75

QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.

LIST OF MATERIALS

TOLERANCES
UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS & BREAK ALL SHARP EDGES.
XX .XXX ANG
MATL
FINISH
NEXT ASSY 550186

DO NOT SCALE DRAWING

SIGNATURES		DATE
DWN	T.Lauchy	12-13-74
CHK	T.Lauchy	12-13-74
ENG		12-12-
APVD		

RAMTEK

TITLE: LOGIC DIAGRAM BD # 2 BASEBALL (PLAY CONTR & INTERCEPT)

SIZE D SCALE SHT 2 OF 5 DWG NO. 550285 REV C

NOTICE THIS DRAWING SHALL NOT BE DUPLICATED OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF RAMTEK CORPORATION. HOWEVER, IF THIS DRAWING IS SPECIFIED TO BE GIVEN TO ANY BRANCH OF GOVERNMENT THIS DRAWING MAY BE USED AS PERMITTED BY THE DATA CLAUSE PER CONTRACT OR SUBCONTRACT

REVISIONS			
LTR	DESCRIPTION	APVD	DATE
A	PROD. RELEASE PER ECO 506263	T.L.	12-13-74
B	REV PER ECO 506272	E.C.	1/6/75
C	REV PER ECO 506284	E.C.	1/20/75

1364

BAT GENERATION

QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.

LIST OF MATERIALS

TOLERANCES
UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS & BREAK ALL SHARP EDGES.
.XX .XXX ANG
MATL
FINISH
550186
NEXT ASSY

DO NOT SCALE DRAWING

SIGNATURES		DATE
DWN	B. Jameson	12-6-74
CHK	T. Laullin	12-13-74
ENG		
APVD		

RAMTEK

TITLE LOGIC DIAGRAM BD #2 BASEBALL (BAT)

SIZE D
SCALE
SHT 4 OF 5
DWG NO. 550285
REV C

LTR	DESCRIPTION	APVD	DATE
A	PROD. RELEASE PER ECO 506263	T.L.	12/13/74
B	REV PER ECO 506272	E.C.	1/6/75
C	REV PER ECO 506284	E.C.	1/20/75

QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.

LIST OF MATERIALS

TOLERANCES
UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS & BREAK ALL SHARP EDGES.
.XX .XXX ANG
MATL
FINISH
NEXT ASSY 550286

DO NOT SCALE DRAWING

SIGNATURES		DATE
DWN	T. Lanchey	12.12.74
CHK	T. Lanchey	12.13.74
ENG		12.13.74
APVD		12.13.74

RAMTEK

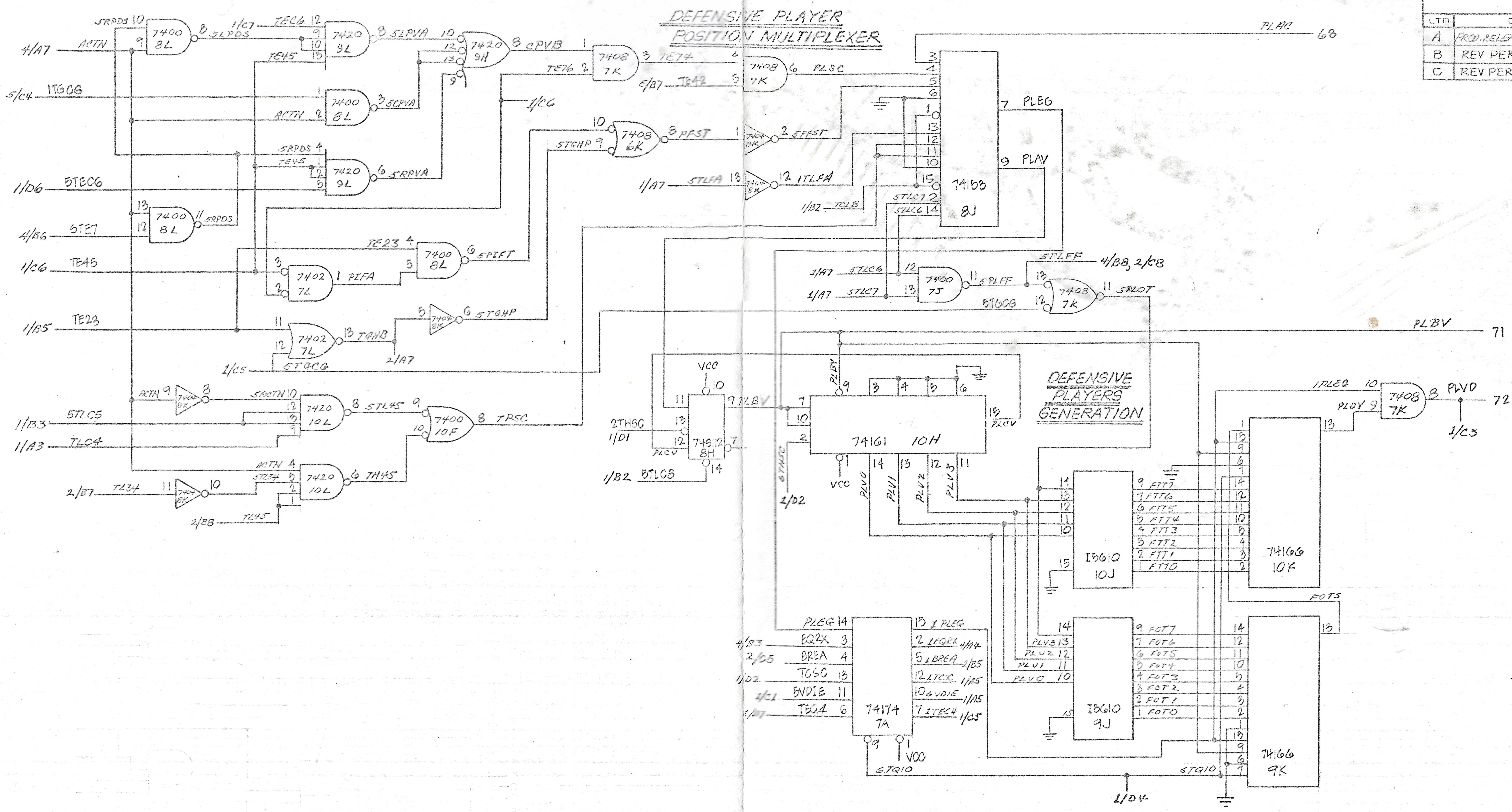
TITLE LOGIC DIAGRAM BD# 2 BASEBALL (COUNTERS & NUMBER GENERATOR)

SIZE D SCALE SHT 5 OF 5 DWG NO. 550285 REV C

501013 REV. A

NOTICE THIS DRAWING SHALL NOT BE DUPLICATED OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF RAMTEK CORPORATION. HOWEVER, IF THIS DRAWING IS SPECIFIED TO BE GIVEN TO ANY BRANCH OF GOVERNMENT THIS DRAWING MAY BE USED AS PERMITTED BY THE DATA CLAUSE PER CONTRACT OR SUBCONTRACT

REVISIONS			
LTR	DESCRIPTION	APVD	DATE
A	PROD. RELEASE PER ECO 506263	T.L.	12.13.74
B	REV PER ECO 506267	E.L.	1/3/75
C	REV PER ECO 506284	E.C.	1/20/75



QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.
LIST OF MATERIALS			

TOLERANCES
UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS & BREAK ALL SHARP EDGES.
.XX .XXX ANG
MATL
FINISH
0550185
NEXT ASSY

DO NOT SCALE DRAWING

SIGNATURES		DATE
DWN		12.11.74
CHK	T. Lancher	12.13.74
ENG		
APVD		

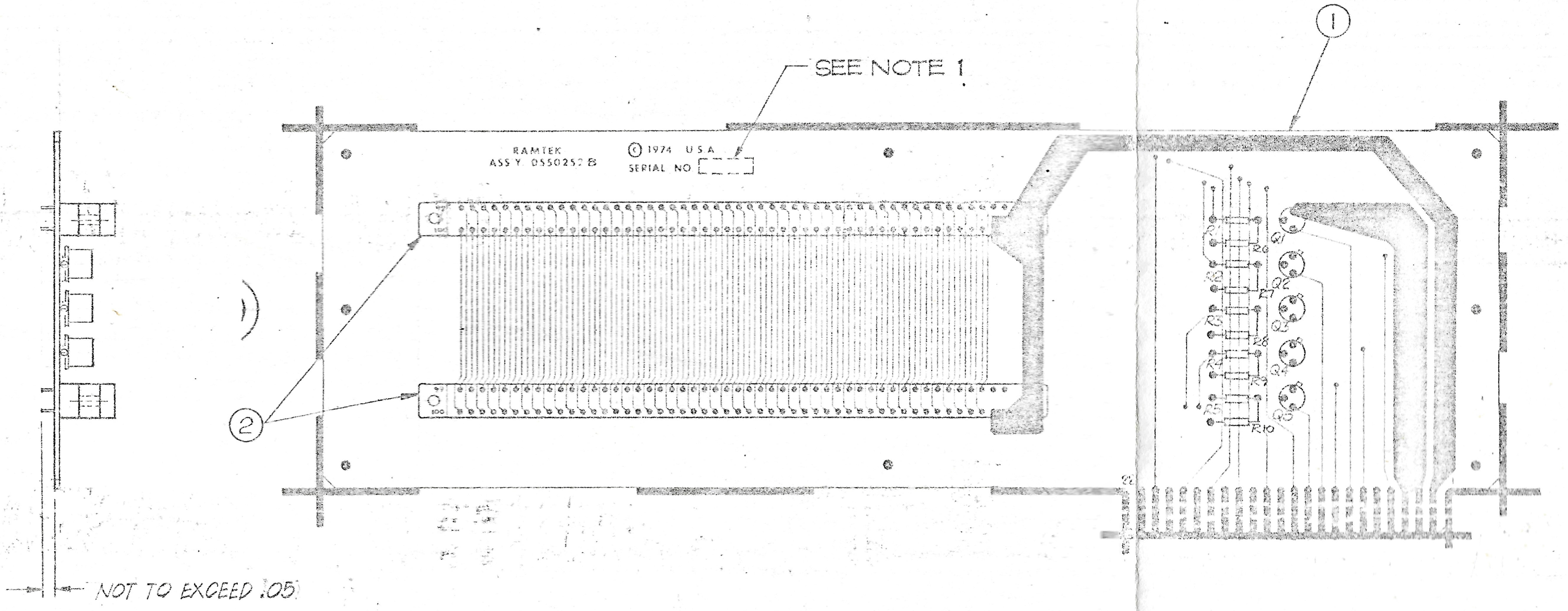
RAMTEK

TITLE LOGIC DIAGRAM BD #1 BASEBALL (DEFENSIVE PLAYERS)

SIZE D SCALE SHT 3 OF 5 DWG NO. 550284 REV C

501002 REV A

LTR	DESCRIPTION	APVD	DATE
A	PROD. REL. ECO # 506274		1-6-75
B	REV PER ECO 506311	E.C.	2/26/75



NOTES:

1. MARK APPROPRIATE SERIAL NO. APPROX. WHERE SHOWN.
2. TRACES ON THIS BOARD DO NOT REFLECT ACTUAL ARTWORK. ALL COMPONENTS ARE AS SHOWN.

REF. DESIG	QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.
~~Q1 THRU Q5~~	~~5~~		~~TRANSISTOR, 2N1595~~	4
~~R1 THRU R10~~	~~10~~		~~RESISTOR, COMP, 560Ω 1/4W, 5%~~	3
	~~2~~	~~SAE CPH B100-100ST~~	~~CARD CONN.~~	2
	~~1~~	~~0550253 A~~	~~P.C. FAB.~~	1

LIST OF MATERIALS

TOLERANCES

DO NOT SCALE DRAWING

SIGNATURES | DATE

RAMTEK

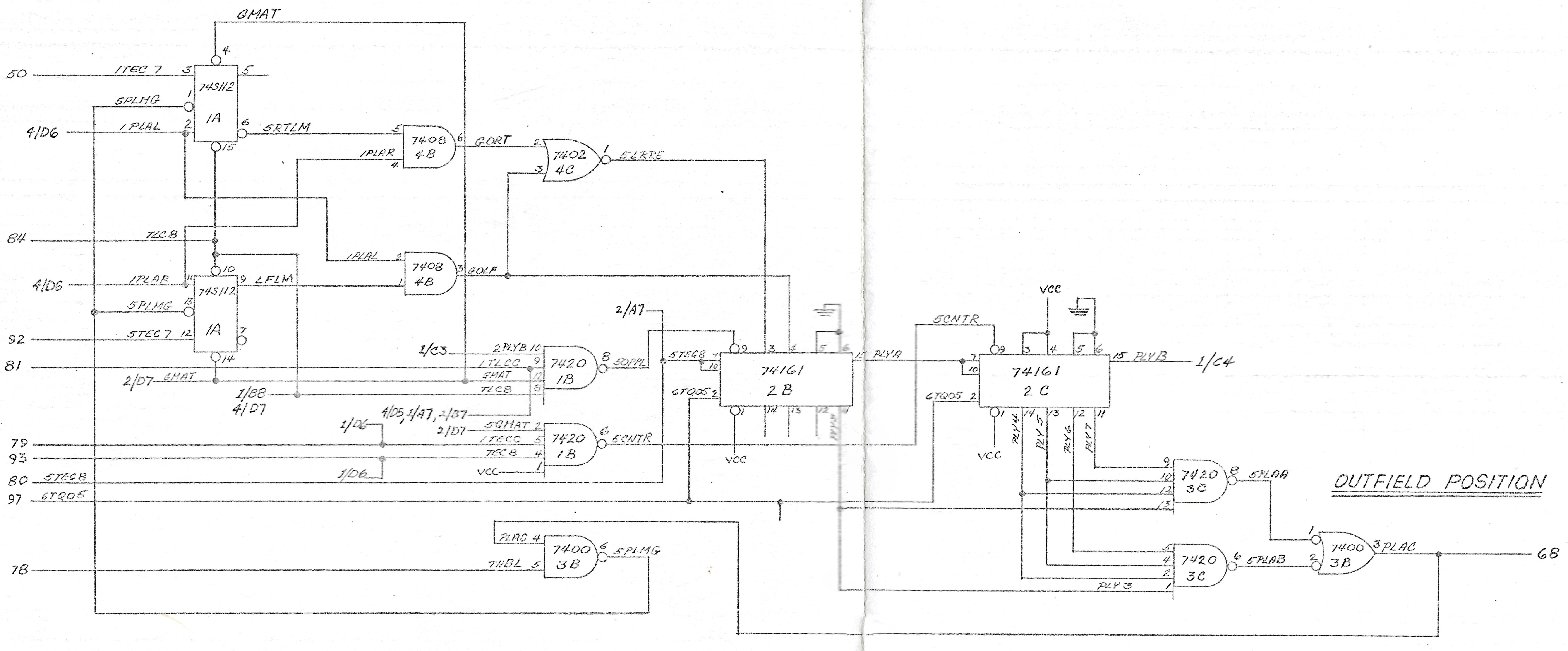
P.C. ASS'Y (MOTHER) BASEBALL ("32")

SIZE D | SCALE 1:1 | DWG NO 550252 | REV B

NOTICE THIS DRAWING SHALL NOT BE DUPLICATED OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF RAMTEK CORPORATION. HOWEVER, IF THIS DRAWING IS SPECIFIED TO BE GIVEN TO ANY BRANCH OF GOVERNMENT THIS DRAWING MAY BE USED AS PERMITTED BY THE DATA CLAUSE PER CONTRACT OR SUBCONTRACT

REVISIONS

LTR	DESCRIPTION	APVD	DATE
A	PROD. RELEASE PER ECO 506263	T.L.	12/13/74
B	REV PER ECO 506272	E.C.	1/6/75
C	REV PER ECO 506284	E.C.	1/20/75



QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.

LIST OF MATERIALS

0550186
NEXT ASSY

TOLERANCES
UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS & BREAK ALL SHARP EDGES.
.XX .XXX ANG
MATL
FINISH

DO NOT SCALE DRAWING

SIGNATURES		DATE
DWN	ROY ANSHAI	12/13/74
CHK	T. Loughlin	12/13/74
ENG		12/13/74
APVD		12/13/74

RAMTEK

TITLE LOGIC DIAGRAM BD #2 BASEBALL (OUTFIELD CONTROL)

SIZE D
SCALE
SHT 3 OF 5
DWG NO. 550285
REV C

NOTICE: THIS DRAWING SHALL NOT BE DUPLICATED OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF RAMTEK CORPORATION. HOWEVER, IF THIS DRAWING IS SPECIFIED TO BE GIVEN TO ANY BRANCH OF GOVERNMENT THIS DRAWING MAY BE USED AS PERMITTED BY THE DATA CLAUSE PER CONTRACT OR SUBCONTRACT.

REVISIONS			
LTR	DESCRIPTION	APVD	DATE
A	PROD. REL. PER ECO 506274	KA	1-6-75

NOTE: PINS 3, 4, 5, 10, 11, AND 12 ARE TIED TOGETHER ON FOIL SIDE OF BOARD WITH AS MUCH GND PLAIN AS POSSIBLE. THIS IS FOR HEAT SINK.

LAST REF. DES.
C28
R18
CR4
Q7

NOTE: ① EACH LM3900 PACKAGE MUST HAVE BYPASS CAP. OF .1µf FROM PIN 14 TO GND
② All RESISTORS ¼ WATT
③ All CAPS 15 VOLTS

QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO
LIST OF MATERIALS			

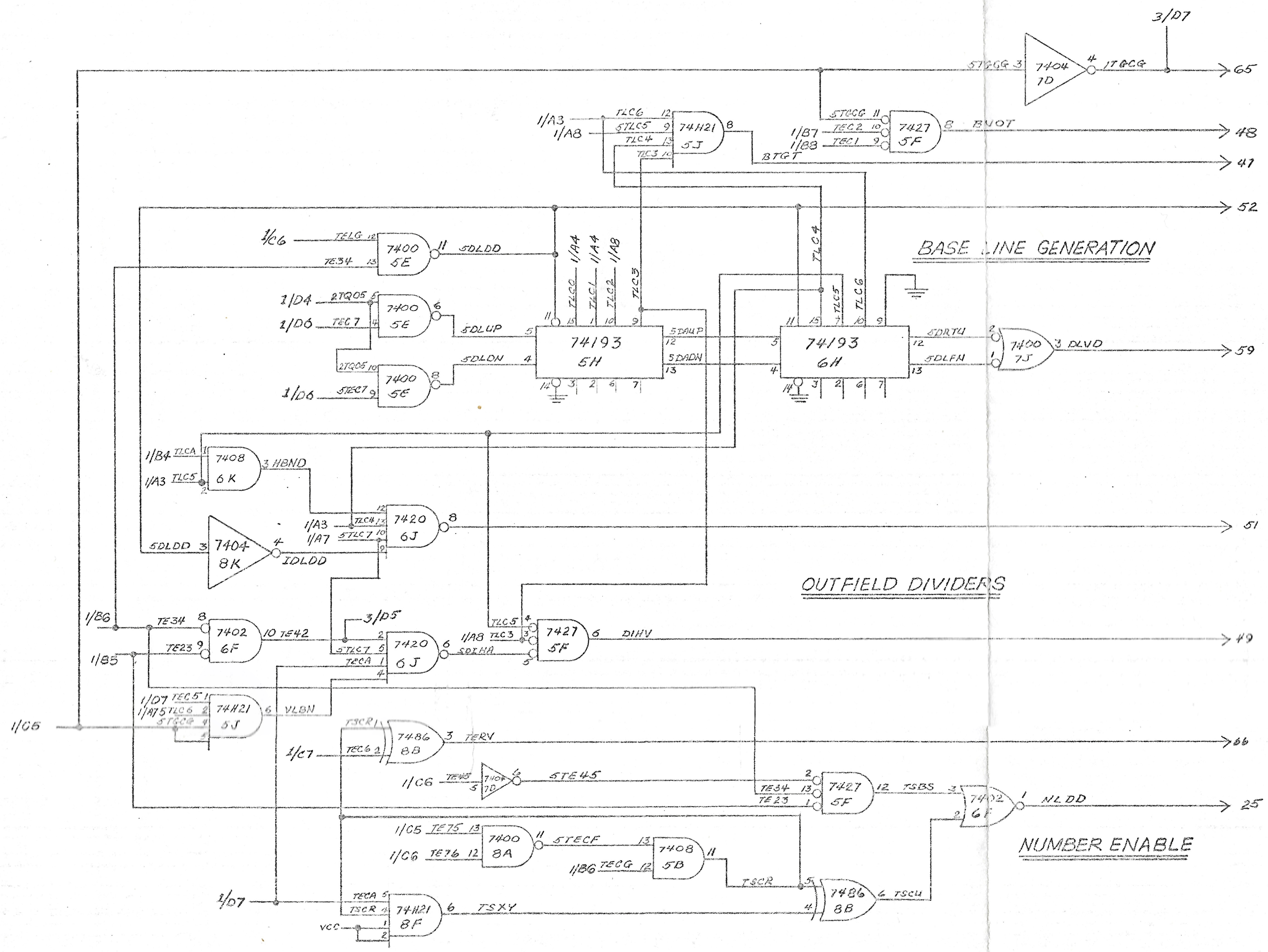
TOLERANCES UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS & BREAK ALL SHARP EDGES. .XX .XXX ANG	DO NOT SCALE DRAWING		RAMTEK
	SIGNATURES	DATE	
	DWN Howell A. Ivy	10 Nov	TITLE SOUND SYSTEM BASE BALL CROWD CHEER, SIREN
MATL	CHK	26 Nov	
FINISH	ENG Howell A. Ivy		SIZE D · SCALE · SHT 1 OF 1 · DWG NO. 550264 · REV A
NEXT ASSY	APVD R. Jones	1/7/75	

50100J REV: A

NOTICE THIS DRAWING SHALL NOT BE DUPLICATED OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF RAMTEK CORPORATION. HOWEVER, IF THIS DRAWING IS SPECIFIED TO BE GIVEN TO ANY BRANCH OF GOVERNMENT THIS DRAWING MAY BE USED AS PERMITTED BY THE DATA CLAUSE PER CONTRACT OR SUBCONTRACT

REVISIONS

LTR	DESCRIPTION	APVD	DATE
A	PROD. RELEASE PER ECO 506263	T.L.	12-13-74
B	REV PER ECO 506267	E.C.	1/3/75
C	REV PER ECO 506284	E.C.	1/20/75



QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.

LIST OF MATERIALS

0550185
NEXT ASSY

TOLERANCES
UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS & BREAK ALL SHARP EDGES.
.XX .XXX ANG
MATL
FINISH

DO NOT SCALE DRAWING

SIGNATURES		DATE
DWN	T. Landry	12/11/74
CHK		
ENG	[illegible]	[illegible]
APVD	[illegible]	[illegible]

RAMTEK

TITLE LOGIC DIAGRAM BD #1
BASEBALL

SIZE D
SCALE
SHT 5 OF 5
DWG NO. 550284
REV C

NOTICE THIS DRAWING SHALL NOT BE DUPLICATED OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF RAMTEK CORPORATION. HOWEVER, IF THIS DRAWING IS SPECIFIED TO BE GIVEN TO ANY BRANCH OF GOVERNMENT THIS DRAWING MAY BE USED AS PERMITTED BY THE DATA CLAUSE PER CONTRACT OR SUBCONTRACT

REVISIONS

LTR	DESCRIPTION	APVD	DATE
A	PROD. RELEASE PER ECO 506263	T.L.	12·13·74
B	REV PER ECO 506267	E.C.	1/3/75
C	REV PER ECO 506284	E.C.	1/20/75

47912

QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.

LIST OF MATERIALS

TOLERANCES
UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS & BREAK ALL SHARP EDGES.
.XX .XXX ANG
MATL
FINISH
0550185
NEXT ASSY

DO NOT SCALE DRAWING

SIGNATURES		DATE
DWN	T. Laulum	12·11·74
CHK	T. Laulum	12·13·74
ENG		12/
APVD		

RAMTEK

TITLE LOGIC DIAGRAM BD#1 BASEBALL (BASE RUNNERS)

SIZE D
SCALE
SHT 2 OF 5
DWG NO. 550284
REV C

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REVISIONS

LTR	DESCRIPTION	APVD	DATE
A	PROD RELEASE PER ECO 506263	T.L.	12.13.74
B	REV PER ECO 506267	E.C.	1/3/75
C	REV PER ECO 506284	E.C.	1/20/75

	QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.

LIST OF MATERIALS

TOLERANCES
UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS & BREAK ALL SHARP EDGES.
.XX .XXX ANG
MATL
FINISH

0550185
NEXT ASSY

DO NOT SCALE DRAWING

SIGNATURES		DATE
DWN	T. Laucher	12.11.74
CHK	T. Laucher	12.13.74
ENG		12/
APVD		

RAMTEK

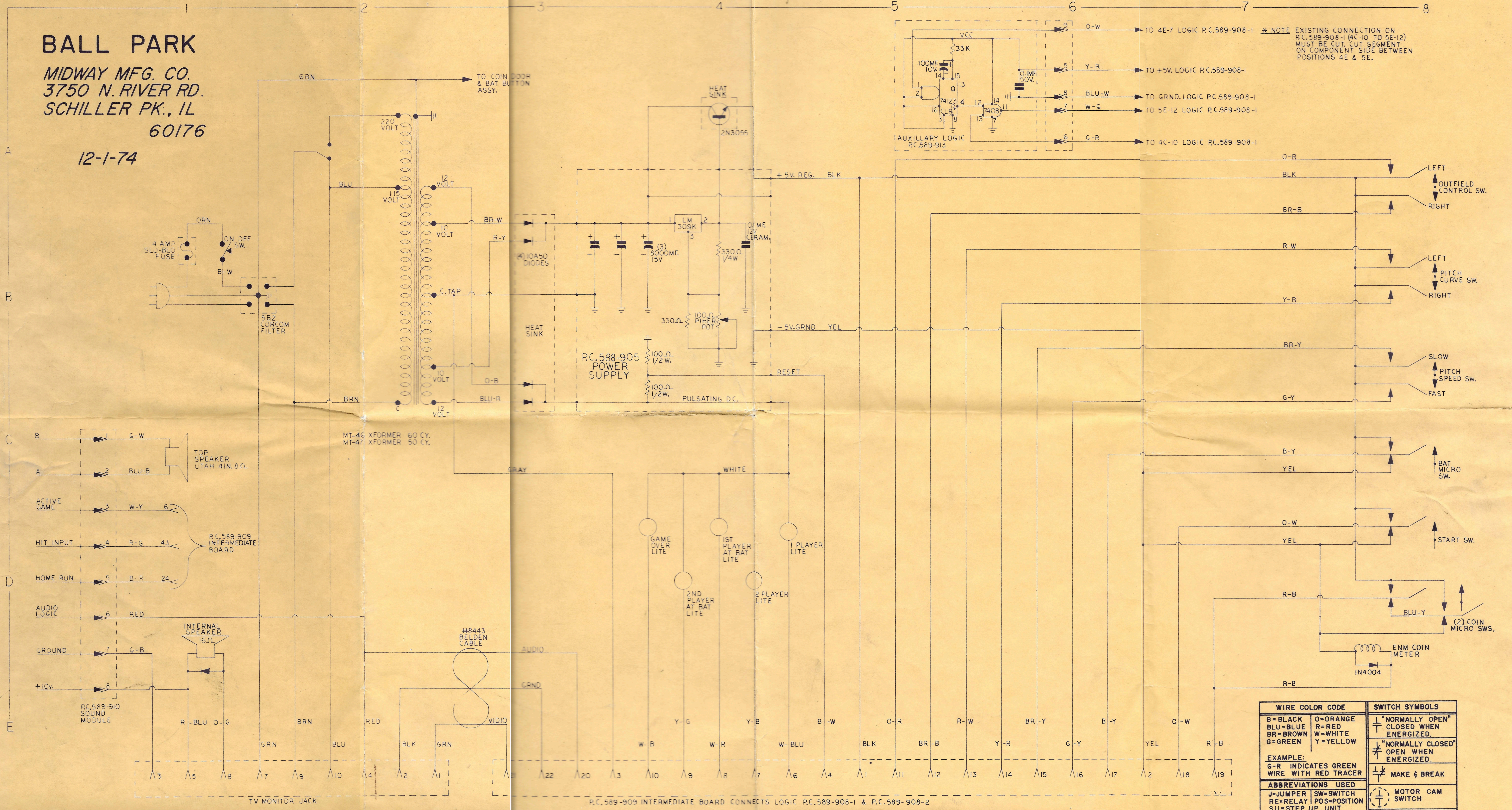
TITLE LOGIC DIAGRAM BD #1 BASEBALL (BASE CONDITION CONTROL)

SIZE D
SCALE
SHT 1 OF 2
DWG NO. 550284
REV C

BALL PARK

MIDWAY MFG. CO.
3750 N. RIVER RD.
SCHILLER PK., IL
60176

12-1-74



WIRE COLOR CODE

B=BLACK	O=ORANGE
BLU=BLUE	R=RED
BR=BROWN	W=WHITE
G=GREEN	Y=YELLOW

EXAMPLE:
G-R INDICATES GREEN WIRE WITH RED TRACER

ABBREVIATIONS USED

J=JUMPER	SW=SWITCH
RE=RELAY	POS=POSITION
SU=STEP UP UNIT	
OSC=OSCILLATING	

SWITCH SYMBOLS

"NORMALLY OPEN" CLOSED WHEN ENERGIZED.
"NORMALLY CLOSED" OPEN WHEN ENERGIZED.
MAKE & BREAK
MOTOR CAM SWITCH
.1 MFD. CAPACITOR